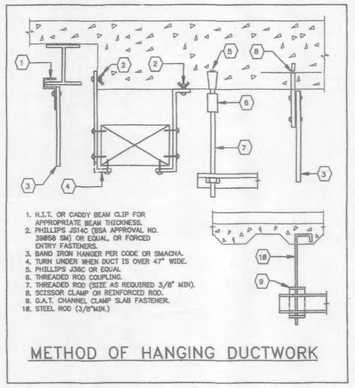
GENERAL NYC BUILDING CODE NOTES

(ALL WORK TO COMPLY WITH THE APPLICABLE SECTIONS OF THE BUILDING CODE, CITY OF NEW YORK EFFECTIVE AUG. 15, 1987 REV. 87/88)
MATERIALS & EQUIPMENT SUBJECT TO CONTROLLED INSPECTION.
A. MECHANICAL VENTILATION (M.V.) AIR CONDITIONING (A.C.) REFRIGERATION.
(1) INSPECTION AND TEST OF REQUIRED VENTILATION SYSTEMS PER C26-1301.3
(2) INSPECTION AND TEST OF REFRIGERATION SYSTEMS PER C26-1301.4 & RS-11.6

A STATEMENT WILL BE FILED (BY THE OWNER OR TENANT IN POSSESSION) THAT THE VENTILATION SYSTEM WILL BE KEPT IN CONTINUOUS OPERATION DURING NORMAL OCCUPANCY OF THE PREMISES.
THE VENTILATION INDEX FOR ALL AREAS COMPLIES WITH THE MINIMUM CODE REQUIREMENTS (C26-1305.2, C26-1306.3). ALL CALCULATIONS OF VENTILATION INDEX MADE WITHOUT TAKING ANY CREDIT FOR EXTERIOR WINDOWS OR QK OPENINGS FOR AC AREAS.



1. H.I.T. OR CADDY BEAM CLIP FOR APPROPRIATE BEAM THICKNESS.
2. PHILLIPS JSHC (BSA APPROVAL NO. 30858 SM) OR EQUAL, OR FORCED ENTRY FASTENERS.
3. BAND IRON HANGER PER CODE OR SMACNA.
4. TURN UNDER WHEN DUCT IS OVER 47" WIDE.
5. PHILLIPS JSSC OR EQUAL
6. THREADED ROD COUPLING.
7. THREADED ROD (SIZE AS REQUIRED 3/8" MIN).
8. SCISSOR CLAMP OR REINFORCED ROD.
9. G.A.T. CHANNEL CLAMP SLAB FASTENER.
10. STEEL ROD (3/8"MIN.)

METHOD OF HANGING DUCTWORK

SELF CONTAINED AIR CONDITIONING UNIT SCHEDULE

UNIT NO.	AREA SERVED	LOCATION	NOM. CAPACITY (TONS) NOMINAL RATING	FANS CFM	FANS HP	DIRECT EXPANSION COOLING COIL AIR TEMP.(°F) ENT. DB	AIR TEMP.(°F) ENT. WB	AIR TEMP.(°F) LVG. DB	AIR TEMP.(°F) LVG. WB	TOTAL MBH	SENS. MBH	FACE AREA SQ.FT.	NO. OF ROWS	ELEC. V/Ph/Hz	CONDENSER-WATER-COOLED CONDENSER PRESS. DROP	CONDENSER-WATER-COOLED GPM	CONDENSER-WATER-COOLED E.W.T. (°F)	CONDENSER-WATER-COOLED P.D. (FEET)	FILTER TYPE	FILTER NO.	FILTER SIZE-IN./FLTR	MANUFACTURER/ MODEL NO.	REMARKS
AC-1,2,3	LAN RM	23RD FL.	5	2000	.5	2	75	62.5	56	55	64.6	53.8	6.67	4	468/3/60	388	18	85	6	FLAT	–	–	LIEBERT / CHALLENGER 3000	SEE NOTE 1 MEA No.182-94-E
AC-7,8	SCATT. ROOM	ROOF	1.5	–	–	–	–	–	–	14.9	–	–	–	265/1/60	–	–	–	–	–	–	–	–	FJAC-15	MEA No.182-70-E
AC-6	PRESS. ROOM	23RD FL.	8	3200	1	1½	80	67	58	96	67	7.83	3	468/3/60	388	18	85	8	FLAT	4	15x28x1	YORK LB-7.5	MEA No.182-72-E
AC-5	WATCH COMMAND	23RD FL.	18	4800	1	3	80	67	58	122	85	9.82	3	468/3/60	388	22	85	6	FLAT	3	28x25-1	YORK LB-18	MEA No.182-72-E
AC-4	ECC ROOM	23RD FL.	18	4800	3/4	1½	80	67	58	115	98	9.4	4	468/3/60	388	22	85	8	FLAT	1	15x28 22x28	YORK LB-18B	MEA No.371-63-E

NOTES:
1. COOLING ONLY UNITS. 3MBPSIG CONSTRUCTION. PROVIDE FLOOR STAND, CONDENSATE DRAIN PUMP, 2-WAY WATER REGULATING VALVE, FIRESTAT, SMOKE DETECTOR, LEAK DETECTOR. UNITS TO BE SUITABLE FOR CORNER INSTALLATION. COORDINATE ARRANGEMENT.
2. PROVIDE A WALL SLEEVE AND 3.8KW ELECTRIC HEATING COIL.
3. PROVIDE OVERSIZED FAN MOTOR AND NON-STANDARD EVAPORATOR FAN DRIVE FOR UNITS AC-4, AC-5 AND AC-8.
4. PROVIDE ENERGY SAVING FREE COOLING WATER COIL FOR UNITS AC-4, AC-5 AND AC-8.

FAN POWERED TERMINAL UNIT SCHEDULE (TITUS MODEL FMC AS STANDARD)

UNIT SYMBOL	PRIMARY AIR, NOMINAL (CFM) MIN-MAX	MINIMUM SOUND POWER (dBA)	HEATING COIL TYPE	HEATING COIL AIR TEMP(°F) ENT	HEATING COIL AIR TEMP(°F) LVG	FAN CFM	FAN SUCT. (IN. W.G.)	FAN H.P.	FAN RPM (MAX)	ELECTRICAL SUPPLY TO TERMINAL VOLTS/PHASE	MAXIMUM NC LEVEL AT 25' DIST	REMARKS
A	UP TO 480	8	ELECT.	72	84	3.8	480	.5	1/18	1725	277/1/60	2	35	
B	481-720	18	ELECT	72	84	5.8	720	.5	½	1725	277/1/60	3	35	
C	721-1200	12	ELECT	72	84	7.8	1200	.5	1/3	1725	277/1/60	4	35	NOTE 1
D	1201-1440	12	ELECT	72	84	8.8	1440	.5	½	1725	277/1/60	5	35	NOTE 1
E	1441-1760	14	ELECT	72	84	10.8	1760	.5	¾	1725	277/1/60	6	35	NOTE 1

NOTE:
1. ALL COMPONENTS DESIGNATED FOR THIS TERMINAL SIZE TO BE INSTALL IN THE NEXT, LARGER SIZE, CASING.
2. FPB-2B WITHOUT HEATING COIL.

FAN SCHEDULE (GREENHECK AS STANDARD)

FAN NO.	LOCATION	SERVICE	CFM	STATIC PRESS. IN.W.G.	RPM	OUTLET VELOC. f.p.m.	TYPE	MODEL NO.	BHP	MOTOR HP	Volt/Ph/Hz	VIBRATION ISOLATION SPEC. TYPE	VIBRATION ISOLATION SELECTION (INCHES)	REMARKS
TE-1	23RD FL.	TOILETS	1150	1.25	1688	–	INLINE	BSQ-128	.5	½	468/3/60	SPR.	1½	
E-1	23RD FL.	SM. RM	450	1	1868	–	INLINE	BSQ-98	.26	½	468/3/60	SPR.	1½	
E-2	23RD FL.	EL. CL.	350	.25	1688	–	INLINE	CSP-256	–	½	115/1/60	SPR.	3½	
E-3	7TH FL.	GEN. RM.	2400	.75	1558	–	INLINE	BSQ-148	.77	1	468/3/60	SPR.	1½	
E-4	7TH FL.	TRANS. RM	500	.75	1858	–	INLINE	BSQ-88	.28	½	468/3/60	SPR.	1½	
E-5	1ST FL.	F.O. RM	450	1.25	2815	–	INLINE	BSQ-88	.33	½	468/3/60	SPR.	1½	SEE NOTE
E-6	23rd FL.	CONF. RM	500	.25	1858	–	INLINE	CSP-255	–	⅓	115/1/60	SPR.	3½	

NOTE: FAN E-5 SHALL BE PROVIDED WITH EXPLOSION-PROOF MOTOR.

VARIABLE AIR VOLUME TERMINAL BOX SCHEDULE (TITUS AS STANDARD)

SYMBOL	INLET DIA. (IN.)	CFM RANGE	MAX. NO. OF INLET DUCTS OF MAX. CFM AT MAX. V.P.	MAX. R.C. LEVEL AT MAX. CFM & V.P. REQ'D (IN AT VEL.)	MIN. DISCHARGE ACOUSTIC LINING	MODEL No.	REMARKS
A	5	0-385	0.11	27	1B	DESV	
B	6	381-685	0.18	29	1B	DESV	
C	7	481-685	0.28	38	1B	DESV	
D	8	681-785	0.28	25	1B	DESV	
E	9	781-985	0.28	29	1B	DESV	
F	10	981-1280	0.28	34	1B	DESV	
G	12	1281-1785	0.28	33	1B	DESV	

NOTE: MINIMUM SET POINT-.38"

ELECTRIC DUCT HEATER SCHEDULE

UNIT NO.	AREA SERVED	LOCATION	TYPE	CFM	E.A.T. (°F)	L.A.T. (°F)	kW	COIL Watt	NO. OF STAGES	V/Ph/Hz	MFR. & MODEL NO.	REMARKS
EHC-1	AC-5	23RD FL.	SLIP-IN	4880	55	77	25	85	3	468/3/60	BRASCH	SEE NOTE
EHC-2	AC-8	23RD FL.	SLIP-IN	3885	55	73	15	51	5	468/3/60	BRASCH	SEE NOTE

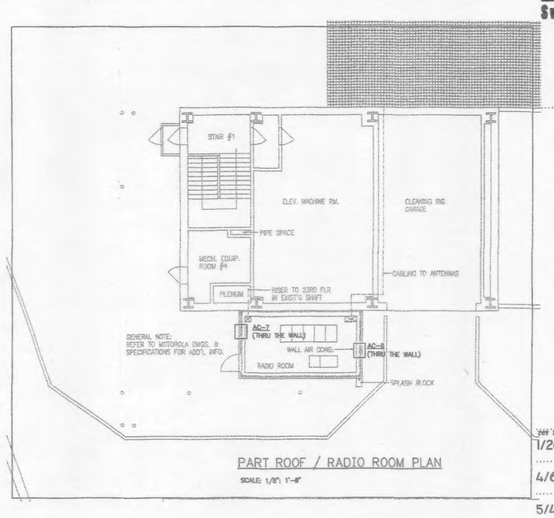
UNIT HEATER SCHEDULE (TRANE AS STANDARD)

UNIT NO.	AREA SERVED	LOCATION	TYPE	AIR QTY (CFM)	AIR TEMP(°F) ENT.	AIR TEMP(°F) LVG.	TOTAL CAPACITY (MBH)	HEATING COIL ELECT. kW	FAN MOTOR HP	FAN MOTOR RPM	FAN MOTOR Volts/Ph/Hz	MODEL NO.	REMARKS
UH-1&2	MER	7TH FL.	ELEC.	1188	58	92	51	15	1/28	1550	468/3/60	UHEC-15	
UH-3&4	MER	23RD FL.	ELEC.	788	58	95	18	7.5	1/38	1550	468/3/60	UHEC-67	

PUMP SCHEDULE

PUMP NO.	LOCATION	SERVICE	TYPE	GPM	TOTAL HEAD F.	SHUT OFF HEAD P.S.I.	IMPELLER DIA. INCHES	ENTRANCE PRESS. PSIG	MFR.	MODEL NO.	MOTOR HP	R.P.	RPM	ELEC. DATA	REMARKS
P-1,2,3	23RD FL.	EMERGENCY COND. WATER	END SUCTION	138	78	75	8⅛	175	HEINEMAN	5½-4X6	5	7½	3758	468/3/60	
P-4&5	1ST FL.	F.O. FILL	GEAR	2888 GPM	58 PSIG	–	–	125	PREFER UTILITIES	3.0-387	2	1148	468/3/60	SEE NOTE	
P-6&7	1ST FL.	F.O.TRANSFER	GEAR	788 GPM	58 PSIG	–	–	125	PREFER UTILITIES	3.0-383	3/4	1148	468/3/60	SEE NOTE	

NOTE: FUEL OIL PUMPS SHALL BE FACTORY ASSEMBLED AND SHIPPED TO THE JOB SITE AS A PUMPING AND STRAINING SET CONSISTING OF DUPLEX STRAINER, TWO PUMPS AND MOTOR ASSEMBLIES, PUMP RELIEF VALVE, ISOLATING GATE VALVES AND PRESSURE GAUGES.



PART ROOF / RADIO ROOM PLAN
SCALE: 1/8"; 1'-0"

SWANKE HAYDEN CONNELL ARCHITECTS

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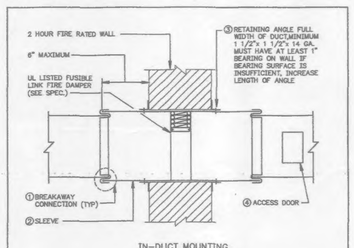
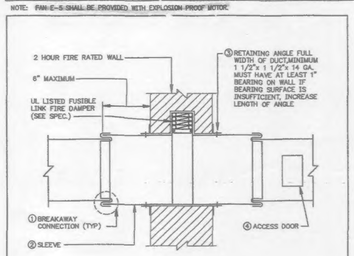
no.	date	comment
	1/26/98	DD ISSUANCE
	4/6/98	ISSUED FOR REVIEW 100% C.D
	5/4/98	100% C.D.
	5/15/98	ADDENDUM No. 1
2	7/24/98	BULLETIN No. 1
	9/25/98	ISSUED FOR P.A. APPROVAL



IN-DUCT MOUNTING FIRE DAMPER

NOTE: THIS INSTALLATION DETAIL IS TYPICAL FOR ALL TYPES OF FIRE DAMPERS (A,B,& C). FOR TYPE B & C DAMPERS, THE SHUTTER SHALL BE OUTSIDE OF AIR STREAM.
① BREAKAWAY CONNECTION SHALL BE SIMILAR TO UL555 SEC. 14.4 APPROVED TYPES, AND NFPA 96A.
② SLEEVE MAY BE DUCT GAUGE IF UL555 CONNECTIONS ARE USED.SLEEVE SHALL BE 16 GA. UP TO 36"Wx24"H OR 14 GA. FOR LARGER SIZES.
③ SHEET METAL CONTRACTOR SHALL FURNISH CONSTRUCTION CONTRACTOR WITH OPENING SIZES.ALL OPENINGS SHALL BE PACKED WITH SUITABLE FIRE RETARDANT MATERIAL.
④ ACCESS DOOR MUST BE LOCATED AS REQUIRED TO ENABLE RESETTING OF DAMPER. MORE THAN ONE DOOR MAY BE REQUIRED ON LARGE DUCTS.

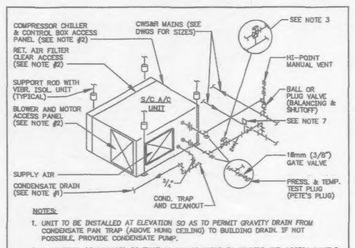
AUTOMATIC FIRE DAMPERS (F.L.D.)



OUT-DUCT MOUNTING FIRE DAMPER

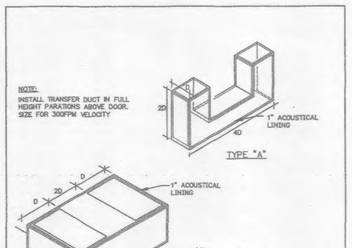
1. BREAKAWAY CONNECTION SHALL BE SIMILAR TO UL555 SEC. 14.4 APPROVED TYPES, AND NFPA 96A.
2. SLEEVE MAY BE DUCT GAUGE IF UL555 CONNECTIONS ARE USED.SLEEVE SHALL BE 16 GA. UP TO 36"Wx24"H OR 14 GA. FOR LARGER SIZES.
3. SHEET METAL CONTRACTOR SHALL FURNISH CONSTRUCTION CONTRACTOR WITH OPENING SIZES.ALL OPENINGS SHALL BE PACKED WITH SUITABLE FIRE RETARDANT MATERIAL.
4. ACCESS DOOR MUST BE LOCATED AS REQUIRED TO ENABLE RESETTING OF DAMPER. MORE THAN ONE DOOR MAY BE REQUIRED ON LARGE DUCTS.

AUTOMATIC FIRE DAMPERS (F.L.D.)

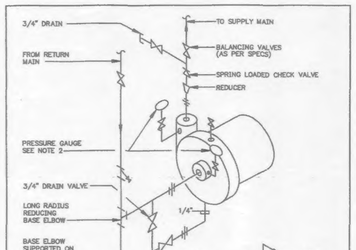


NOTES:
1. UNIT TO BE INSTALLED AT ELEVATION SO AS TO PERMIT GRAVITY DRAIN FROM CONDENSATE PAN TRAP (ABOVE HUNG CEILING) TO BUILDING DRAIN. IF NOT POSSIBLE, PROVIDE CONDENSATE PUMP.
2. UNIT SHALL BE LOCATED SO THAT ACCESS IS CLEAR TO FILTERS AND ACCESS PANELS.
3. PROVIDE A 2-WAY REGULATING VALVE VALVE SHALL HAVE MAXIMUM ΔP=(5 PSIG)
4. UNIT SHALL BE STRAIGHT COOLING.
5. VALVE PRESSURE RATING AS FOLLOWS; 250 PSIG
6. PROVIDE ROOM STAT WITH SUB-BASE.
7. PROVIDE DIFFERENTIAL PRESSURE SWITCH TO PREVENT COMPRESSOR OPERATION WITH LOW WATER FLOW.
8. REGULATING VALVE SHALL STOP WATER FLOW WHEN POWER FAILS OR UNIT IS STOPPED.
9. ALL FLOOR MOUNTED AC UNITS TO BE PROVIDED WITH THERMOMETERS AND PRESSURE GAUGES ON CWS AND CWR.

SUPPLEMENTARY SELF CONTAINED UNIT PIPING DETAIL

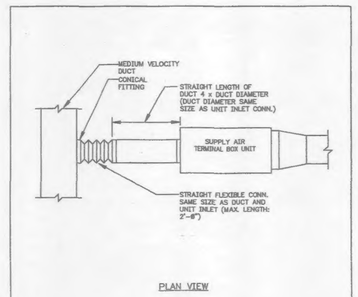


TRANSFER (JUMPER) DUCT TYPES



NOTES:
1. PROVIDE SUFFICIENT SPACE BETWEEN MAIN AND PUMP INLET TO PERMIT REMOVAL OF IMPELLER. FOR PUMPS WITH FLANGE INLET PROVIDE SPOOL PIECE FOR IMPELLER REMOVAL.
2. INSTALL PRESSURE GAUGES FOR 150% OF WORKING PRESSURE IN 1/4" TAPPING PROVIDED BY VENDOR. IF TAPS ARE NOT PROVIDED, PROVIDE IN PIPING.

WATER PUMP PIPING END SUCTION PUMP



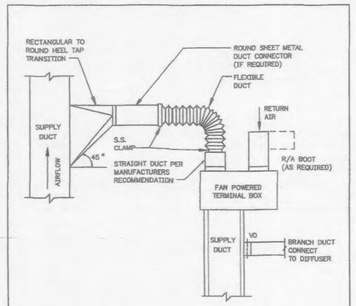
PLAN VIEW

N.Y.C. TYPICAL AIR TERMINAL BOX UNIT INLET DUCT CONNECTION DETAIL

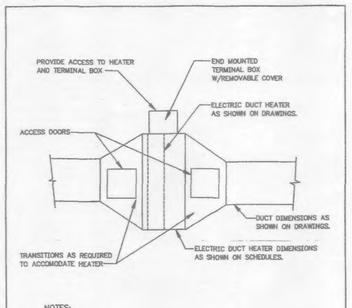
INTERPRETATION OF SINGLE LINE DUCTWORK

WHERE DUCTWORK IS SHOWN SINGLE LINE, FOLLOWING SHALL APPLY FOR ACTUAL DUCT CONSTR.

SINGLE LINE	ACTUAL CONSTRUCTION
ELBOW	DOUBLE THICKNESS TURNING VANES (EITHER TYPE ELBOW AT CONTR. OPTION-SUBJECT TO SPACE CONDITIONS).
SPLIT OR TAKE-OFF	AJB SHALL BE PROPORTIONAL TO AIR QUANTITY, 4" (18cm) MIN. IF A or B IS LESS THAN 4" (18cm), USE TAP DETAIL. VOLUME DAMPER IN SHORTER BRANCH. (CONSTANT VOL. SYST. / VARIABLE VOL. SYST.)
TAP TAKE-OFF	VOLUME DAMPER; ADJUSTABLE TAP UP TO 1000FPM OVER 1000 FPM USE V.D. ONLY (AIR FLOW SUPPLY / AIR FLOW RETURN)
RISE OR DROP	OFFSET IN VERTICAL PLANE SHALL BE MADE WITH SMOOTH FITTINGS. (ELEVATION)
HORIZONTAL OFFSET	OFFSET IN HORIZONTAL PLANE SHALL BE MADE WITH SMOOTH FITTINGS.
PLENUM OVER DIFFUSER / CONN. TO LINEAR DIFFUSER PLENUM	PLENUM OVER LINEAR SUPPLY OR RETURN DIFFUSER OR GRILLE; CONICAL FITTINGS; REGULATION OF VOLUME DAMPER SHALL BE ACCESSIBLE THROUGH THE FACE OF DIFFUSER
FLD / FIRE RATED WALL / FIRE DAMPER	ACCESS DOOR IN DUCT; FLD MOUNTING TYPE DEPENDS ON AIR VELOCITIES AND DUCT SIZE - SEE SPECIFICATIONS.
HTG. COIL / HEATING COIL	FLARE/TRANSITION DUCT TO ACCOMMODATE COIL; COIL WITH FLANGED CONNECTION ALL AROUND; ACCESS DOORS (AIR FLOW)



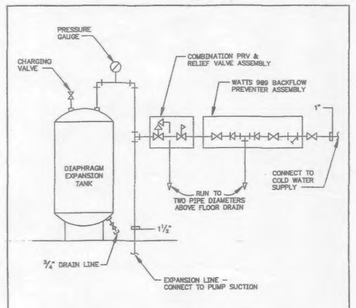
TYPICAL FAN-POWERED TERMINAL UNIT CONNECTION DETAIL



NOTES:
1. PROVIDE APPROVED DUCT HANGERS WITHIN 300mm (12") HORIZONTALLY (BOTH UPSTREAM AND DOWNSTREAM) OF THE HEATER.

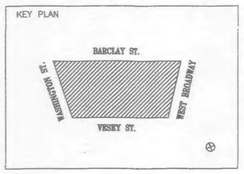
ELECTRIC DUCT HEATER DETAIL

NO SCALE



COMPRESSION TANK DETAIL DIAPHRAGM TYPE

KEY PLAN



Job name
7 WORLD TRADE CENTER
NEW YORK, NY
Project No 1854 | Drawn By | Checked By
Title
ROOF PART PLAN
NOTES AND DETAILS
Scale NONE
Issue Date
Drawing No. M4.01

"THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES."

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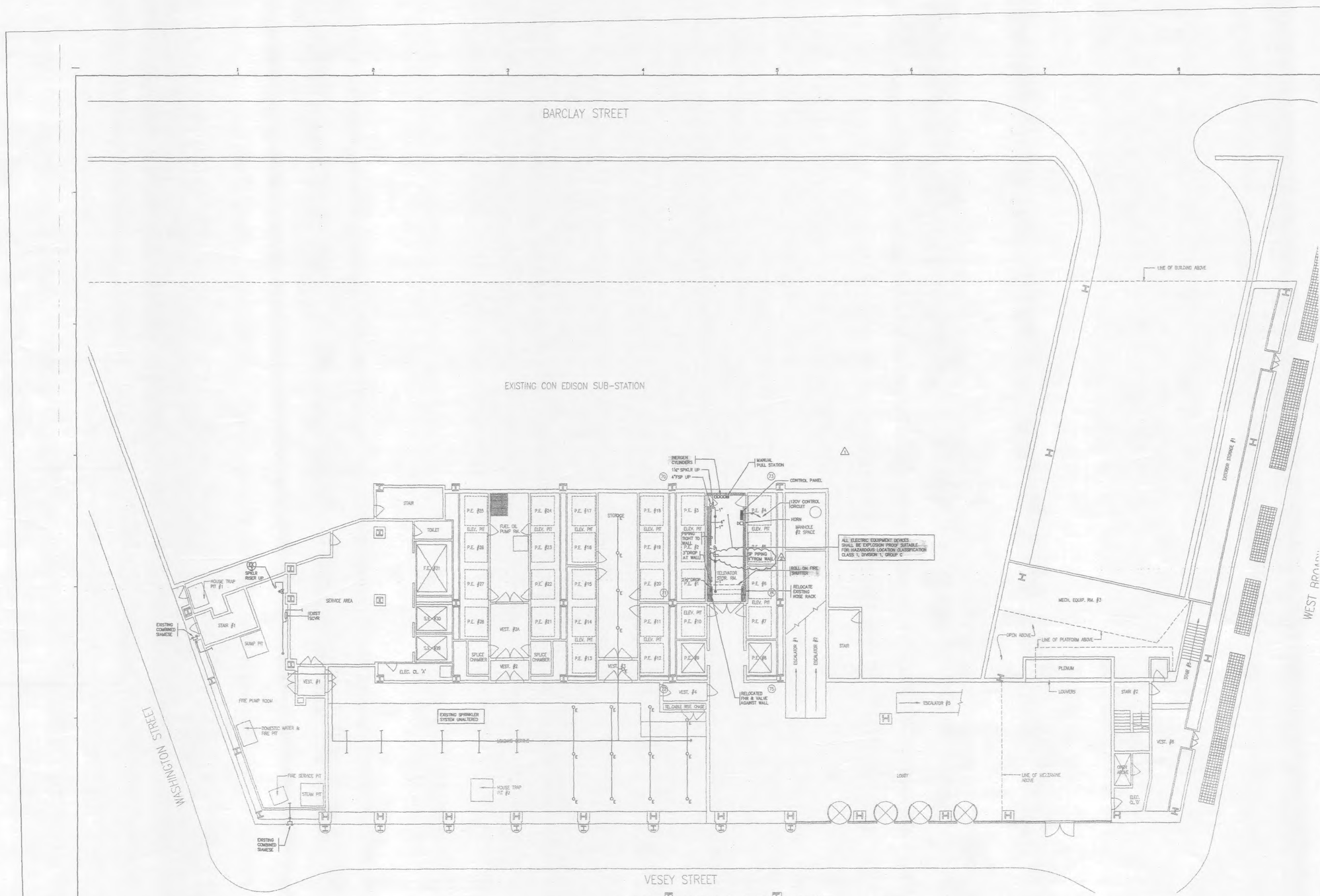
WTC1-25-3/DSE 3/Ten, Fit Out/M4.01



PART PLAN – MEZZANINE

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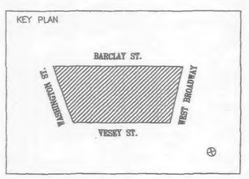
rev no	date	comment
	4/6/98	ISSUED FOR REVIEW 100% C
	5/4/98	100% C.D.
	5/13/98	ISSUED FOR P.A. REVIEW
△	5/15/98	ADDENDUM #1
△	7/24/98	BULLENTIN #1
	9/25/98	ISSUED FOR P.A. APPROVAL

KEY PLAN



Job name
7 WORLD TRADE CENTER
NEW YORK, NY

Project No	Drawn By	Checked By
1854		R.P.

Title
FIRE PROTECTION – 1ST FLOOR PLAN

Scale
1/8"=1'-0"

Issue Date

Drawing No.
FP1.01

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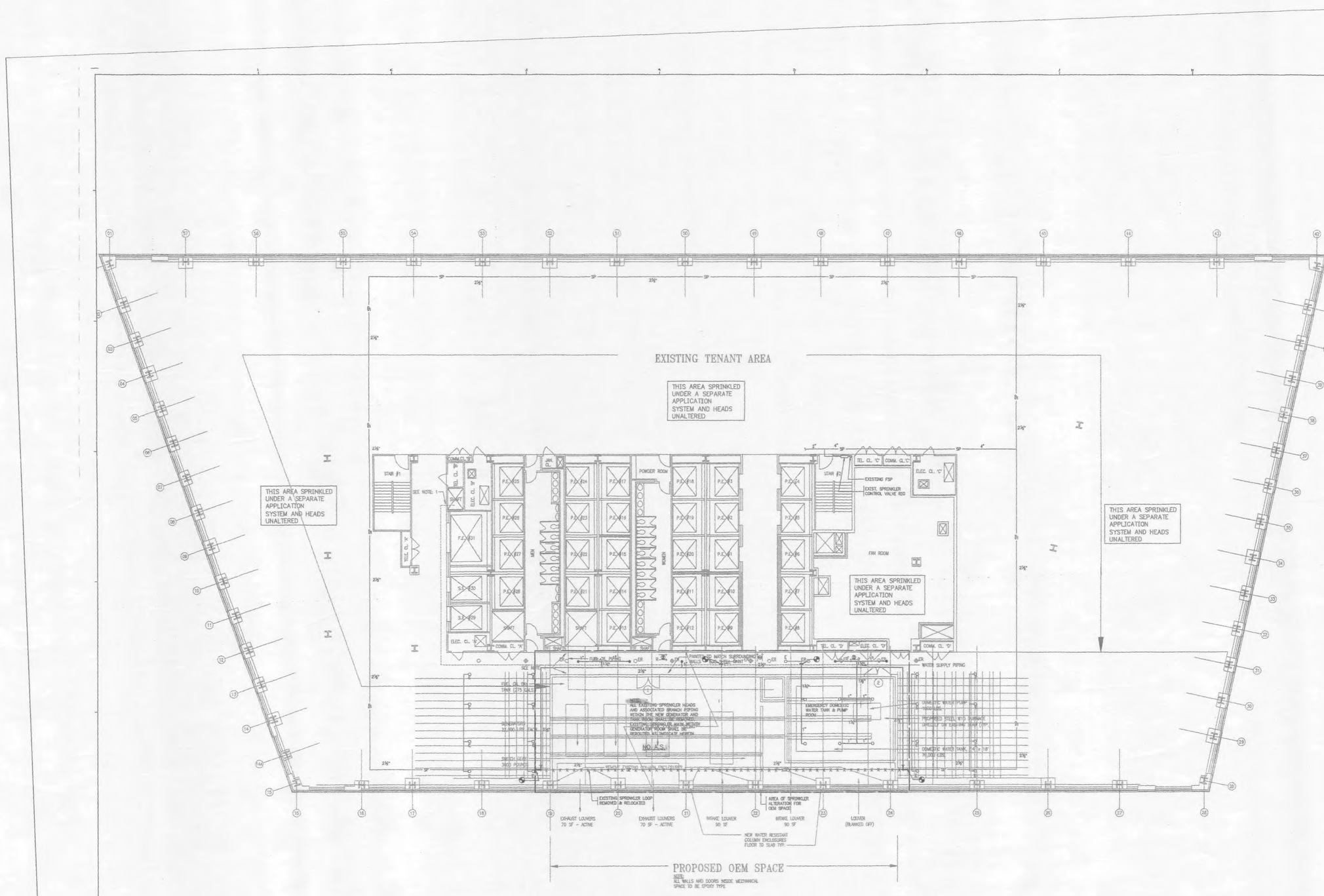
INTCI-25-3/DISK 3/Tex Fit Out/FP1.01



Swanke Hayden Connell Architec

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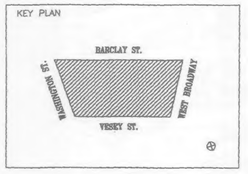
rev no' date	comment
1/26/98	DD ISSUANCE
4/6/98	ISSUED FOR REVIEW 100% C.D.
5/4/98	100% C.D.
5/13/98	ISSUED FOR P.A. REVIEW

KEY PLAN



Job name

7 WORLD TRADE CENTER

NEW YORK, NY

Project No	Drawn by	Checked By
1854		RJP

Title

FIRE PROTECTION – 7TH FLOOR PLAN

Scale

1/8"=1'-0"

Issue Date

Drawing No.

FP2.07

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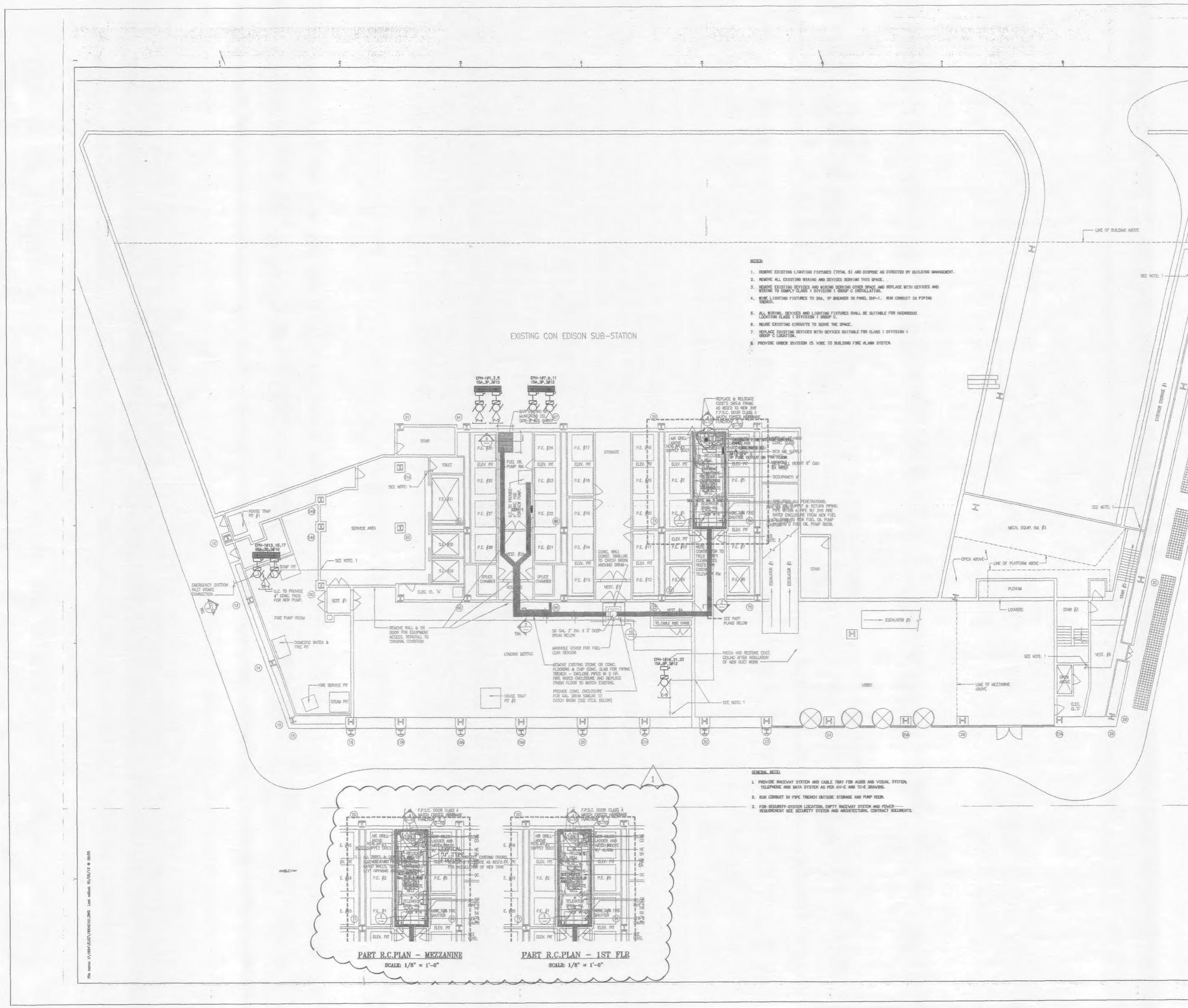
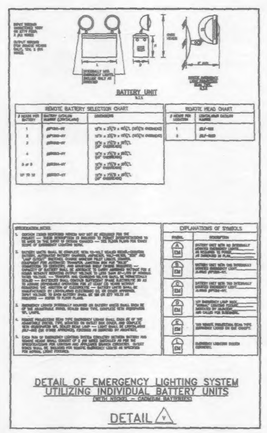
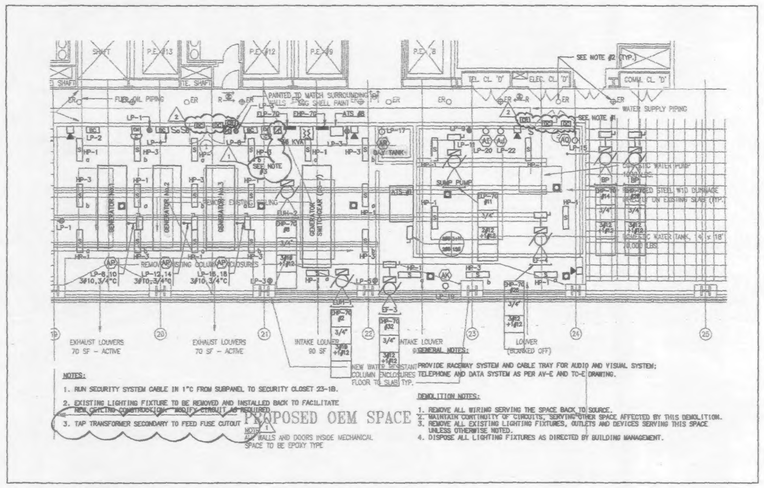
File name: I:\SHA\YUAN\FP3-07.DWG Last edited: 05/20/11 @ 08:14


EXISTING CON EDISON SUB-STATION
LINE OF BUILDING ABOVE
SEE NOTE: 1
EXTERIOR STORAGE #1
EPH-1#1,3,5 15A,3P,3#12
EPH-1#7,9,11 15A,3P,3#12
EPH-1#13,15,17 25A,3P,3#10
EPH-1#19,21,23 15A,3P,3#12
STAIR
TOILET
STORAGE
SERVICE AREA
FUEL OIL PUMP RM.
SPLICE CHAMBER
VEST. #1
VEST. #2
VEST. #3
VEST. #4
ELEC. CL. 'A'
HOUSE TRAP PIT #1
HOUSE TRAP PIT #2
SUMP PIT
FIRE PUMP ROOM
DOMESTIC WATER & FIRE PIT
FIRE SERVICE PIT
STEAM PIT
EMERGENCY SUCTION INLET INTAKE CONNECTION
LOADING DEPTH
TELCABLE RISE CHASE
ESCALATOR #1
ESCALATOR #2
ESCALATOR #5
STAIR
MECH. EQUIP. RM. #3
OPEN ABOVE
LINE OF PLATFORM ABOVE
PLENUM
LOUVERS
STAIR #2
STAIR #3
VEST. #5
LOBBY
LINE OF MEZZANINE ABOVE
ELEC. CL. 'C'
SEE PART PLANS BELOW
PATCH AND RESTORE EXIST. CEILING AFTER INSTALLATION OF NEW DUCT WORK
REMOVE WALL & DR DOOR FOR EQUIPMENT ACCESS. REINSTALL TO ORIGINAL CONDITION
50 GAL. 2' DIA. x 3' DEEP - FROM BELOW
MANHOLE COVER FOR FUEL LEAK SENSOR
REMOVE EXISTING STONE OR CONC. FLOORING & CHIP CONC. SLAB FOR PIPING TRENCH - ENCLOSE PIPES IN 2 HR. FIRE RATED ENCLOSURE AND REPLACE FINISH FLOOR TO MATCH EXISTING.
PROVIDE CONC. ENCLOSURE FOR GAL DRUM SIMILAR TO CATCH BASIN (SEE DTLS. BELOW)
CONC. WALL CONST. SIMILAR TO CATCH BASIN AROUND DRUM
G.C. TO PROVIDE 4" CONC PADS FOR NEW PUMP.
REPLACE & RELOCATE EXIST'G DR'S & FRAME AS REQ'D TO NEW 3HR F.P.S.C. DOOR CLASS A WITH CLOSER, HARDWARE
NEW AIR SUPPLY
15 FUSE CUTOUT ON 7TH FLOOR
MARSHALL HEIGHT 8" CMU
OCCUPANCY: A
SEE NOTE 1
SEE NOTE 2
SEE NOTE 3
SEE NOTE 4
SEE NOTE 5
SEE NOTE 6
SEE NOTE 7
SEE NOTE 8
SEE NOTE 9
SEE NOTE 10
SEE NOTE 11
SEE NOTE 12
SEE NOTE 13
SEE NOTE



DETAIL OF EMERGENCY LIGHTING SYSTEM UTILIZING INDIVIDUAL BATTERY UNITS

DETAIL



NOTES:
1. RUN SECURITY SYSTEM CABLE IN 1"C FROM SUBPANEL TO SECURITY CLOSET 23-1B.
2. EXISTING LIGHTING FIXTURE TO BE REMOVED AND INSTALLED BACK TO FACILITATE NEW DUCTWORK CONSTRUCTION. MODIFY CIRCUIT AS REQUIRED.
3. TAP TRANSFORMER SECONDARY TO FEED FUSE CUTOUT

DEMOLITION NOTES:
1. REMOVE ALL WIRING SERVING THE SPACE BACK TO SOURCE.
2. MAINTAIN CONTINUITY OF CIRCUITS, SERVING OTHER SPACE AFFECTED BY THIS DEMOLITION.
3. REMOVE ALL EXISTING LIGHTING FIXTURES, OUTLETS AND DEVICES SERVING THIS SPACE UNLESS OTHERWISE NOTED.
4. DISPOSE ALL LIGHTING FIXTURES AS DIRECTED BY BUILDING MANAGEMENT.

PART PLAN
7TH FLOOR

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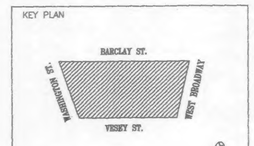
317 Madison Avenue NY, NY 10017

rev no	date	comment
	1/26/98	DD ISSUANCE
	3/2/98	PROGRESS
	4/8/98	ISSUED FOR REVIEW - 100% CD
	5/4/98	100% CD
1	5/15/98	ADDENDUM #1
2	7/24/98	ISSUED FOR BULLETIN #1

KEY PLAN



Job name
7 WORLD TRADE CENTER
NEW YORK, NY
Project No. 1854 | Drawn By | Checked By

7TH FLOOR PART PLAN
LIGHTING,POWER, & SIGNAL

Scale
1/8"=1'-0"
Issue Date
Drawing No.
E1.07

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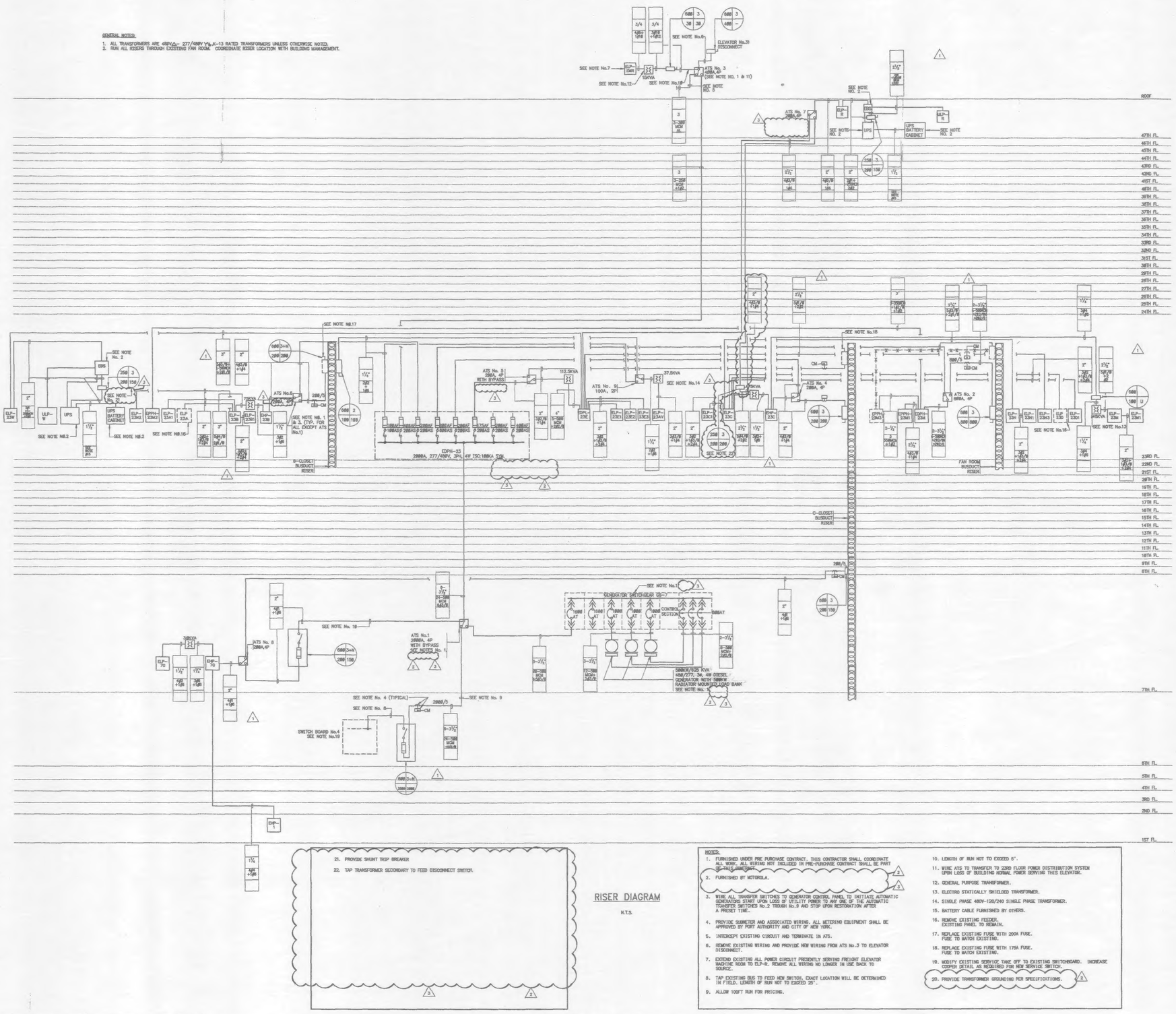
File Name: X:\SHA\JOBS\SB4C\07\DWG Last edited: 08/07/23 @ 13:47

E1.07 7TH FLOOR PART PLAN FIT OUT @ 100

GENERAL NOTES:

1. ALL TRANSFORMERS ARE 480VΔ– 277/480V Y_N,K-13 RATED TRANSFORMERS UNLESS OTHERWISE NOTED.
2. RUN ALL RISERS THROUGH EXISTING FAN ROOM. COORDINATE RISER LOCATION WITH BUILDING MANAGEMENT.



21. PROVIDE SHUNT TRIP BREAKER
22. TAP TRANSFORMER SECONDARY TO FEED DISCONNECT SWITCH.

RISER DIAGRAM

N.T.S.

NOTES:

1. FURNISHED UNDER PRE PURCHASE CONTRACT. THIS CONTRACTOR SHALL COORDINATE ALL WORK. ALL WIRING NOT INCLUDED IN PRE-PURCHASE CONTRACT SHALL BE PART OF THIS CONTRACT.
2. FURNISHED BY MOTOROLA.
3. WIRE ALL TRANSFER SWITCHES TO GENERATOR CONTROL PANEL TO INITIATE AUTOMATIC GENERATORS START UPON LOSS OF UTILITY POWER TO ANY ONE OF THE AUTOMATIC TRANSFER SWITCHES No.2 TROUGH No.9 AND STOP UPON RESTORATION AFTER A PRESET TIME.
4. PROVIDE SUBMETER AND ASSOCIATED WIRING. ALL METERING EQUIPMENT SHALL BE APPROVED BY PORT AUTHORITY AND CITY OF NEW YORK.
5. INTERCEPT EXISTING CIRCUIT AND TERMINATE IN ATS.
6. REMOVE EXISTING WIRING AND PROVIDE NEW WIRING FROM ATS No.3 TO ELEVATOR DISCONNECT.
7. EXTEND EXISTING ALL POWER CIRCUIT PRESENTLY SERVING FREIGHT ELEVATOR MACHINE ROOM TO ELP-R. REMOVE ALL WIRING NO LONGER IN USE BACK TO SOURCE.
8. TAP EXISTING BUS TO FEED NEW SWITCH. EXACT LOCATION WILL BE DETERMINED IN FIELD. LENGTH OF RUN NOT TO EXCEED 25'.
9. ALLOW 100FT RUN FOR PRICING.
10. LENGTH OF RUN NOT TO EXCEED 5'.
11. WIRE ATS TO TRANSFER TO 23RD FLOOR POWER DISTRIBUTION SYSTEM UPON LOSS OF BUILDING NORMAL POWER SERVING THIS ELEVATOR.
12. GENERAL PURPOSE TRANSFORMER.
13. ELECTRO STATICALLY SHIELDED TRANSFORMER.
14. SINGLE PHASE 480V-120/240 SINGLE PHASE TRANSFORMER.
15. BATTERY CABLE FURNISHED BY OTHERS.
16. REMOVE EXISTING FEEDER. EXISTING PANEL TO REMAIN.
17. REPLACE EXISTING FUSE WITH 200A FUSE. FUSE TO MATCH EXISTING.
18. REPLACE EXISTING FUSE WITH 175A FUSE. FUSE TO MATCH EXISTING.
19. MODIFY EXISTING SERVICE TAKE OFF TO EXISTING SWITCHBOARD. INCREASE COOPER DETAIL AS REQUIRED FOR NEW SERVICE SWITCH.
20. PROVIDE TRANSFORMER GROUNDING PER SPECIFICATIONS.

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Rev No	Date	Comment
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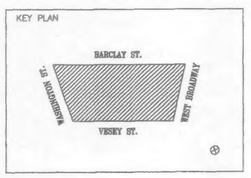
	5/4/98	100% CD
	5/13/98	ISSUED FOR P.A. REVIEW
1	5/15/98	ADDENDUM #1
2	7/24/98	ISSUED FOR BULLETIN #1
3	9/25/98	ISSUED FOR PA APPROVAL

KEY PLAN



Job name

7 WORLD TRADE CENTER
NEW YORK, NY

Project No	Drawn By	Checked By
1854		

Title
POWER RISER DIAGRAM

Scale
NONE

Issue Date

Drawing No.
E3.01

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File Name: J:\1854\CAD\1854E301.DWG Last edited: 09/28/98 @ 14:58

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LIST OF ELECTRIC MOTORS AND MOTOR CONTROLS

ELECTRIC DRAWING SYMBOL	DESIGNATION OF MOTOR	MOTOR RATING: HP	VOLTS	PHASE	TYPE	REFERENCE TO SPECIFICATION NOTES PERTAINING TO LIST OF ELECTRIC MOTORS AND MOTOR CONTROLS	REFERENCE TO MOTOR LIST ELECTRIC NOTES EXCEPTIONS TO BASIC SPECIFICATIONS ("e" NOTES)	STARTER: TYPE	STARTER: MOUNTING	MANUAL MOTOR CONTROL ACTUATING DEVICES IN STARTER COVER: PRESENTATION	MANUAL MOTOR CONTROL ACTUATING DEVICES IN STARTER COVER: PILOT LIGHTS	MANUAL MOTOR CONTROL ACTUATING DEVICES IN STARTER COVER: SELECTOR SWITCH	INTERLOCKING	✓ INDICATES MOTOR IS CENTRALLY CONTROLLED VIA PROCESS CONTROL SYSTEM	MANUAL MOTOR CONTROL ACTUATING DEVICES NOT IN STARTER COVER: PUSH BUTTONS: ADJACENT TO MOTOR	PUSH BUTTONS: AT CENTRAL CONTROL PANEL	PUSH BUTTONS: AT OTHER LOCATION	PILOT LIGHTS: ADJACENT TO MOTOR	PILOT LIGHTS: AT CENTRAL CONTROL PANEL	PILOT LIGHTS: AT OTHER LOCATION	SELECTOR SWITCH: ADJACENT TO MOTOR	SELECTOR SWITCH: AT CENTRAL CONTROL PANEL	SELECTOR SWITCH: AT OTHER LOCATION	AUTOMATIC MOTOR CONTROL ACTUATING DEVICES: FOR OPERATION: ADJACENT TO MOTOR	FOR OPERATION: ADJACENT TO STARTER	FOR OPERATION: AT OTHER LOCATION	FOR SAFETY: ADJACENT TO MOTOR	FOR SAFETY: ADJACENT TO STARTER	FOR SAFETY: AT OTHER LOCATION	AUTOMATIC MOTOR CONTROL ACTUATED DEVICES: ADJACENT TO MOTOR	ADJACENT TO STARTER	AT OTHER LOCATION	DESCRIPTION OF ELECTRIC WORK FOR MOTOR CONTROLS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
	AC-1	5T	460	3	H	13c	13f												✓	✓																								
	AC-2	5T	460	3	H	13c	13f												✓	✓																								
	AC-3	5T	460	3	H	13c	13f												✓	✓																								
	AC-4	5T	460	3	H	13c	13f												✓	✓																								
	AC-5	18T	460	3	H	13c	13f												✓	✓																								
	AC-6	8T	460	3	H	13c	13f												✓	✓																								
	TE-1	3/4	460	3	SC	13f						CMU	V		r	hoa			✓																								
	E-1	1/8	460	3	SC	13f						CMU	V		r	hoa			✓																								
	E-2	1/4	115	1	SC	13f						st	V		r	hoa			✓																								
	E-3	1	460	3	SC	13f						CMU	V		r	hoa			✓																								
	E-4	1/2	460	3	SC	13f						CMU	V		r	hoa			✓																								
	E-5	1/3	460	3	SC	13f						CMU	V		r	hoa			✓																								
	E-6	1/3	115	1	SC	13f						st	V		r	hoa			✓																								
	CT-1	3H	460	3	2SC	13e	13e					2CMU	V		r	hoa			✓	✓																								
	CT-2	3H	460	3	2SC	13e	13e					2CMU	V		r	hoa			✓	✓																								
	P-1 – CW PUMP	7½	460	3	SC	13e						CMU	V		r	hoa			✓	✓																								
	P-2 – CW PUMP	7½	460	3	SC	13e						CMU	V		r	hoa			✓	✓																								
	P-3 – CW PUMP STAND-BY	7½	460	3	SC	13e						CMU	V		r	hoa			✓	✓																								
F.O. Fill Pump Set	P-4	2	460	3	SC							CMU	V		r				✓	✓																								
	P-5	2	460	3															✓	✓																								
F.O. Transfer Pump	P-6	3/4	460	3	SC														✓	✓																								
	P-7	3/4	460	3	SC														✓	✓																								
	SUMP PUMP	1/3	115	1																																							
	CONSTANT PRESSURE BOOSTER	28.8	460	3																																							
	DOMESTIC WATER TANK TRANSFER PUMP	2HP	460	3																																							
	FAN POWERED BOXES	3/4	277	1	SC	13c	13f																																				

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Rev No	date	comment
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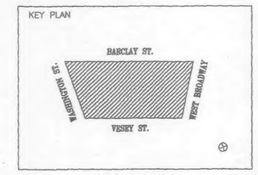
4	4/6/98	ISSUED FOR REVIEW – 100% CD
5	5/4/98	100% CD

KEY PLAN



job name
7 WORLD TRADE CENTER
NEW YORK, NY

Project No 1854 | Drawn By | Checked By

Title
MOTOR LIST

Scale
NONE

Issue Date

Drawing No.
E6.01

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1854: 1854E601.PLT

SWANKE HAYDEN CONNELL ARCHITECTS

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EXISTING TENANT AREA

PROPOSED OEM SPACE
NOTE:
ALL WALLS AND DOORS INSIDE MECHANICAL SPACE TO BE EPOXY TYPE

1 7TH FLOOR PLAN
1/8" = 1'-0"

4 TYP. CONC. CURB @ PERIMETER WALLS

5 CONC. ENCLOSURES @ STL. DUNNAGE TYP.

6 CONC. CURB UNDER FUEL OIL DAY TANK

2 7TH FLOOR DEMO PLAN
1/8" = 1'-0"

DEMOLITION NOTES:

THE SCOPE OF DEMOLITION WORK HAS GENERALLY BEEN INDICATED ON THE DRAWING FOR CONTRACTORS INFORMATION. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE FULL SCOPE, EXTENT, NATURE AND MANNER OF DEMOLITION REQUIRED.

ONLY WORKMEN SKILLED AND KNOWLEDGEABLE IN THEIR RESPECTIVE TRADES SHALL BE EMPLOYED IN THE DEMOLITION OF ANY WORK.

CONTRACTORS SHALL TAKE SPECIAL CARE TO DEMOLISH ONLY THAT WORK WHICH IS REQUIRED TO BE DEMOLISHED AND NOT TO DISTURB ANY WORK WHICH IS REQUIRED TO REMAIN. IF IN THE COURSE OF DEMOLITION, CONTRACTOR DESTROYS OR DISTURBS ANY WORK WHICH IS TO REMAIN, THEN HE SHALL, AT HIS OWN EXPENSE, REPAIR OR REPLACE SUCH WORK AS NECESSARY.

ANY CUTS AND PENETRATIONS IN EXISTING WORK REQUIRED TO ACCOMPLISH NEW WORK SHALL BE KEPT TO AN ABSOLUTE MINIMUM AND SHALL BE DONE NEATLY AND WITHOUT DISTURBANCE TO ADJACENT WORK TO REMAIN.

ALL DEMOLITION WORK TO BE DONE DURING THE HOURS DESIGNATED BY THE OWNER.

REMOVE AND DISCARD ALL DEMOLISHED ITEMS IN A MANNER FULLY APPROVED BY THE CITY OF NEW YORK AND ANY OTHER GOVERNMENT AGENCY.

G.C. TO REMOVE ALL CEILINGS, LIGHT FIXTURES AND FLOOR FINISHES IN ALL TENANT SPACES.

G.C. SHALL VERIFY ALL DIMENSIONS AND JOB CONDITIONS PRIOR TO SUBMITTING BIDS AND SHALL REPORT TO THE OWNERS REPRESENTATIVE ANY DISCREPANCIES OR OMISSIONS WHICH WOULD INTERFERE WITH COMPLETION OF WORK. ALL PERMITS SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORK.

REMOVE RADIATOR ENCLOSURES AS REQUIRED BY MECHANICAL DRAWINGS AND RELOCATE PIPING AS PER SPECIFICATIONS. RETURN ALL ENCLOSURES TO BUILDING MANAGER.

DO NOT REMOVE ANY BASE BUILDING FIRE ALARMS UNLESS INDICATED BY ENGINEERING DRAWINGS.

ALL BASE BUILDING VENETIAN BLINDS ARE TO BE REMOVED AND TURNED OVER TO THE OWNER.

DO NOT DEMOLISH ANY EXISTING COLUMN ENCLOSURES, UNLESS OTHERWISE NOTED.

ALL EXISTING DOOR HARDWARE, LIGHT FIXTURES, AND FIRE SAFETY DEVICES ARE TO BE REMOVED AND SAVED BY G.C. FOR NEW CONSTRUCTION.

G.C. TO COORDINATE WITH TENANT FOR THE REMOVAL AND STORAGE OF ALL M.I.C. ITEMS.

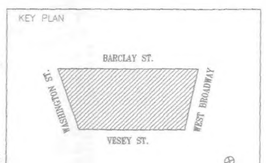
ALL DEMOLITION WORK TO BE IN COMPLIANCE W/ ARTICLE 6, SUBCHAPTER 19 OF THE NYC CODE "DEMOLITION OPERATIONS"

NOTES:

1. PROVIDE SLEEVE IN EXISTING WALL FOR INSTALLATION OF NEW PIPING AND CONDUITS – PATCH, FIRE SAFE AND RESTORE ALL FINISHES BACK TO ORIGINAL CONDITION AFTER NEW INSTALLATION.
2. G.C. TO PROVIDE TEMPORARY WALLS DURING CONSTUCTION TO DEMISE SPACE AND PROTECT OCCUPANTS OF FLOOR FROM DUST AND NOISE.
3. PATCH AND RESTORE EXISTING ADJACENT CEILING AFTER NEW CONSTRUCTION.
4. RELOCATE EXISTING LIGHTS AS SHOWN IN PLANS.
5. NEW GYP. BD. CORRIDOR CEILING @ PIPE RUN
6. G.C. TO SEAL ALL EXPOSED FIRE PROOFING IN MECHANICAL ROOMS.
7. ALL GYP. BD. INSIDE NEW GENERATOR ROOM & WATER TANK STOR. ROOM TO BE WATER RESISTANT TYPE.
8. WATER PROOFING MEMBRANE (SEE SPECIFICATIONS)
9. PAINT ALL WALLS, COLUMN ENCLOSURES AND DOORS W/ EPOXY PAINT
10. SEE DWG. D-0 FOR WALLS & DOOR INFORMATION

3 7TH FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

KEY PLAN



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rev no	date	comment
	04/06/98	ISSUED FOR REVIEW 100% CD
	05/04/98	100% CD
1	07/24/98	BULLETIN #1

job name
MAYOR'S OFFICE OF EMERGENCY MANAGEMENT
7WTC NYC, NY

Project No 5576A | Drawn By | Checked By

Title
PART 7TH FLOOR CONSTRUCTION PLAN

Scale
1/8" = 1'-0"

Issue Date

Drawing No.
A-7-1

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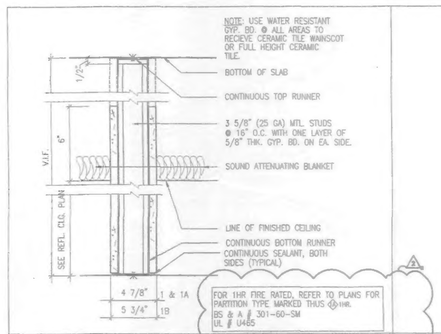
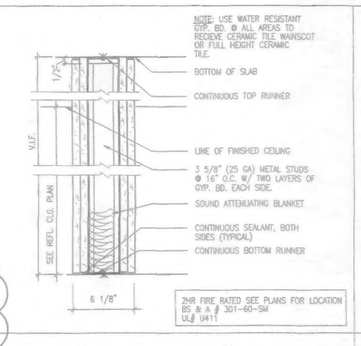
PLOT DATE:



1 PTN TYPE "1"

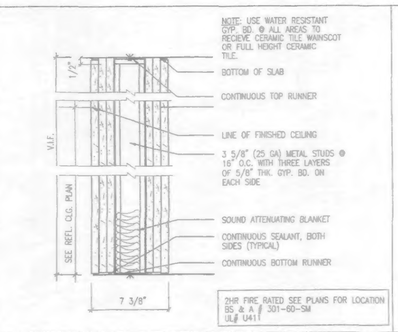
1A: SAME AS "1" W/ GYP. BD. FULL HEIGHT TO UNDERSIDE OF DECK & SOUND INSULATION

NOTE: BEFORE INSTALLING CHANNEL STUDS, WRAP TOP & BOTTOM OF STUDS W/ ELEC. TAPE TO ISOLATE MTL FROM MTL.



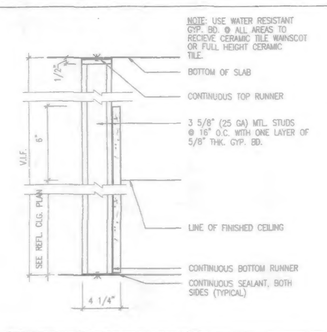
2 PTN TYPE "2"

NOTE: BEFORE INSTALLING CHANNEL STUDS, WRAP TOP & BOTTOM OF STUDS W/ ELEC. TAPE TO ISOLATE MTL FROM MTL.



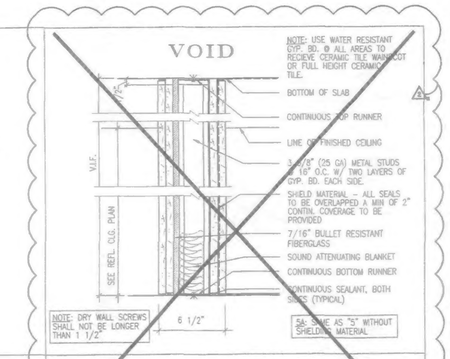
3 PTN TYPE "3"

NOTE: BEFORE INSTALLING CHANNEL STUDS, WRAP TOP & BOTTOM OF STUDS W/ ELEC. TAPE TO ISOLATE MTL FROM MTL.



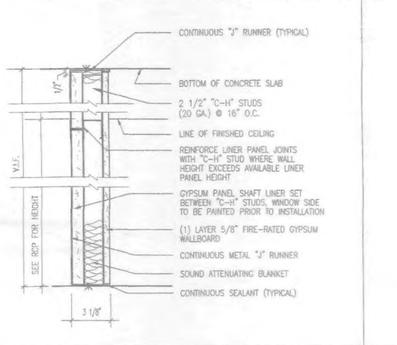
4 PTN TYPE "4"

NOTE: BEFORE INSTALLING CHANNEL STUDS, WRAP TOP & BOTTOM OF STUDS W/ ELEC. TAPE TO ISOLATE MTL FROM MTL.



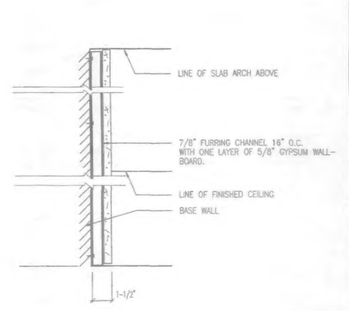
5 PTN TYPE "5" EMI RES.

NOTE: BEFORE INSTALLING CHANNEL STUDS, WRAP TOP & BOTTOM OF STUDS W/ ELEC. TAPE TO ISOLATE MTL FROM MTL.



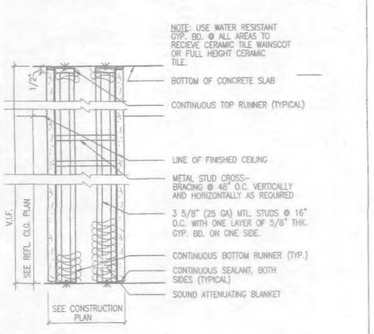
6 PTN TYPE "6"

NOTE: BEFORE INSTALLING CHANNEL STUDS, WRAP TOP & BOTTOM OF STUDS W/ ELEC. TAPE TO ISOLATE MTL FROM MTL.



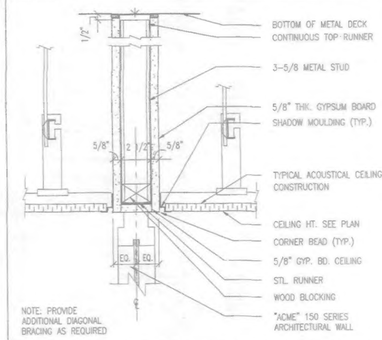
7 PTN TYPE "7"

NOTE: BEFORE INSTALLING CHANNEL STUDS, WRAP TOP & BOTTOM OF STUDS W/ ELEC. TAPE TO ISOLATE MTL FROM MTL.



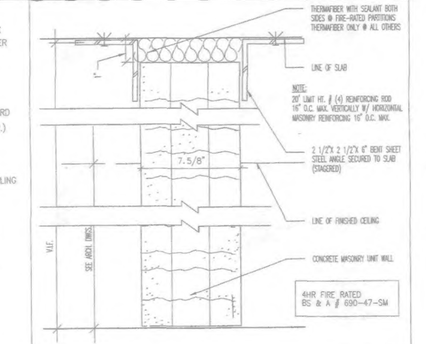
8 PTN TYPE "8"

NOTE: BEFORE INSTALLING CHANNEL STUDS, WRAP TOP & BOTTOM OF STUDS W/ ELEC. TAPE TO ISOLATE MTL FROM MTL.

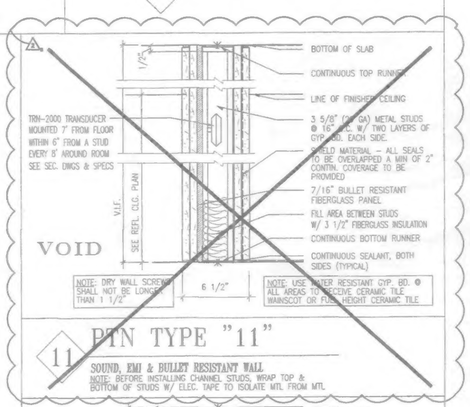


9 PTN TYPE "9"

NOTE: BEFORE INSTALLING CHANNEL STUDS, WRAP TOP & BOTTOM OF STUDS W/ ELEC. TAPE TO ISOLATE MTL FROM MTL.



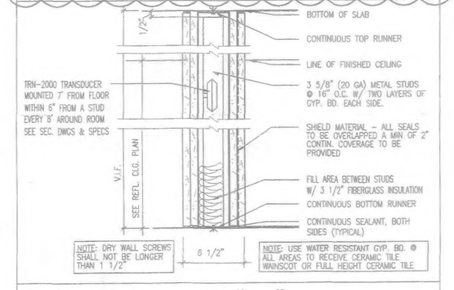
10 PTN TYPE "10"



11 PTN TYPE "11"

SOUND, EMI & BULLET RESISTANT WALL

NOTE: BEFORE INSTALLING CHANNEL STUDS, WRAP TOP & BOTTOM OF STUDS W/ ELEC. TAPE TO ISOLATE MTL FROM MTL.

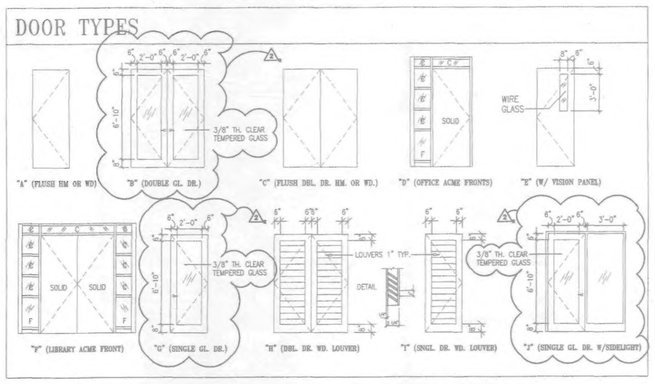


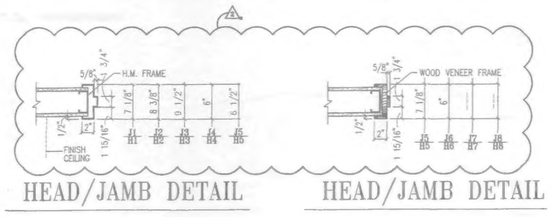
12 PTN TYPE "12"

SOUND & EMI RESISTANT WALL

NOTE: BEFORE INSTALLING CHANNEL STUDS, WRAP TOP & BOTTOM OF STUDS W/ ELEC. TAPE TO ISOLATE MTL FROM MTL.

DOOR TYPES

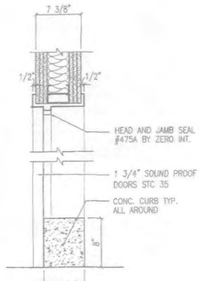




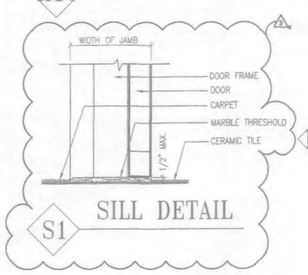
HEAD/JAMB DETAIL HEAD/JAMB DETAIL

H9 HEAD DETAIL

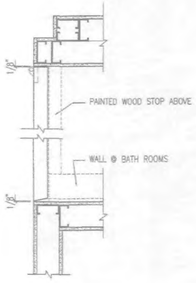
H10 HEAD DETAIL



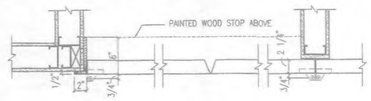
H11 HEAD/ SILL DETAIL



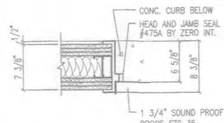
S1 SILL DETAIL



J9 JAMB DETAIL



J10 JAMB DETAIL



J11 JAMB DETAIL

SWANKE HAYDEN CONNELL ARCHITECTS

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600 Madison Avenue NY, NY 10022
Construction Manager
Ambassador Construction Co., Inc.
317 Madison Avenue NY, NY 10017

rev no	date	comment
	04/06/98	ISSUED FOR REVIEW 100% CD
	05/04/98	100% CD
1	05/15/98	ADDENDUM #1
2	07/24/98	BULLETIN #1
	9/25/98	ISSUED FOR P.A. APPROVAL

KEY PLAN

Job name
MAYOR'S OFFICE OF EMERGENCY MANAGEMENT
7WTC NYC, NY
Project No 5576A
Drawn By
Checked By
Title
PARTITION TYPES, DOOR SCHEDULE, & DOOR TYPES
Scale AS NOTED
Issue Date
Drawing No. D-0

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PLOT DATE: PLOT TIME:

WTC1 - 25-5 / Disk 3 / Tem Fit Out / D-0